

METHOD FOR THE PRODUCTION OF A SHEET METAL PLATE, IN PARTICULAR

Approved. OK to **OF STEEL, FOR THE MANUFACTURE OF MOTOR VEHICLE BODY**

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COMPONENTS

CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a National Phase Application of International Application No.

PCT/EP2004/010763, filed on September 24, 2004, which claims the benefit of and priority to German patent application no. DE 103 50 670.5, filed on October 20, 2003. The disclosures of the above applications are incorporated herein by reference in their entirety.

FIELD OF THE INVENTION

The invention relates to a sheet metal plate, in particular of steel, for the manufacture of motor vehicle body components, with at least one local reinforcement zone.

BACKGROUND

Sheet metal plates of this kind are known. Motor vehicle body components are cut out from them, such as the inside panels of doors or bonnets and hatchbacks. In order on the one hand to satisfy the requirements for the lowest possible weight and, on the other, for sufficient strength at critical points, such as the connection points for hinges, the principle is known of welding shaped reinforcing sheets with non-linear seam runs into cut-outs in the sheet metal plates (DE 195 24 235 A1). The production of such sheet metal plates with local reinforcements is elaborate and leads to not inconsiderable amounts of scrap.

SUMMARY OF THE INVENTION

The invention is based on the object of developing a sheet metal plate which satisfies the requirements for lightweight construction in conjunction with adequate strength in areas subject to high mechanical stress, which is simple to manufacture and does not incur any scrap.